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PHOTOGRAPHIC INTERPRETATION REPORT

DUAL HEN HOUSE-TYPE ACTIVITIES NEAR OLENEGORSK AND ANGARSK, USSR, AND COMPARISON WITH SITE 13, SSATC

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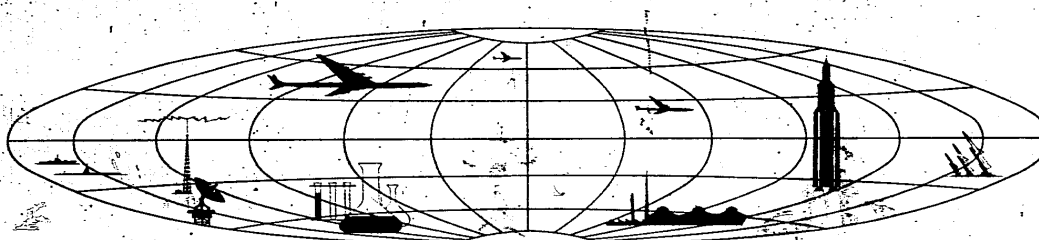
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DUAL HEN HOUSE-TYPE ACTIVITIES
NEAR OLENEGORSK AND ANGARSK, USSR,
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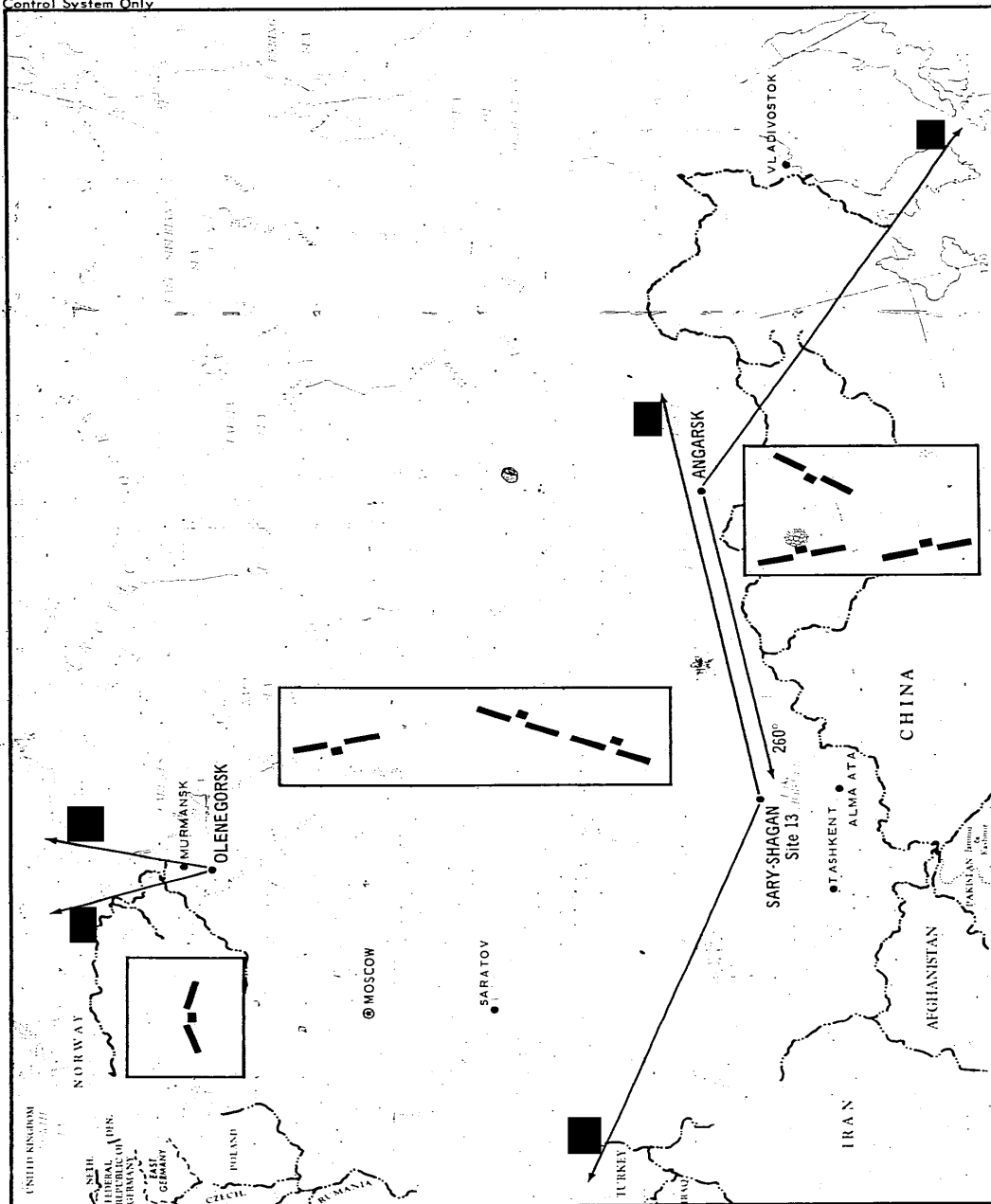
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FIGURE 1. LOCATION OF DUAL HEN HOUSE-TYPE STRUCTURES NEAR OLENEGORSK, ANGARSK, AND SSATC SITE 13 AS OF

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INTRODUCTION

25X1D Analysis of a dual HENHOUSE-type activity, under construction, near Olenegorsk, USSR on KEYHOLE photography through [REDACTED]
25X1D [REDACTED] reveals apparent similarities to the HEN HOUSE-type structures, under construction, near Angarsk and at the Sary-Shagan Anti-missile Test Center (SSATC) Site 13 (Figure 1). It has not been possible to determine the function of these three activities from photography through [REDACTED]. However,

they appear to be tracking facilities, possibly antimissile missile and/or space associated.

A comparative study of the three activities was made to determine the construction status, and the similarities and differences in the three. A detailed description of the activities near Olenegorsk and near Angarsk is included in this report. A detailed description of the SSATC Site 13 is being prepared under NPIC project N-694/64.

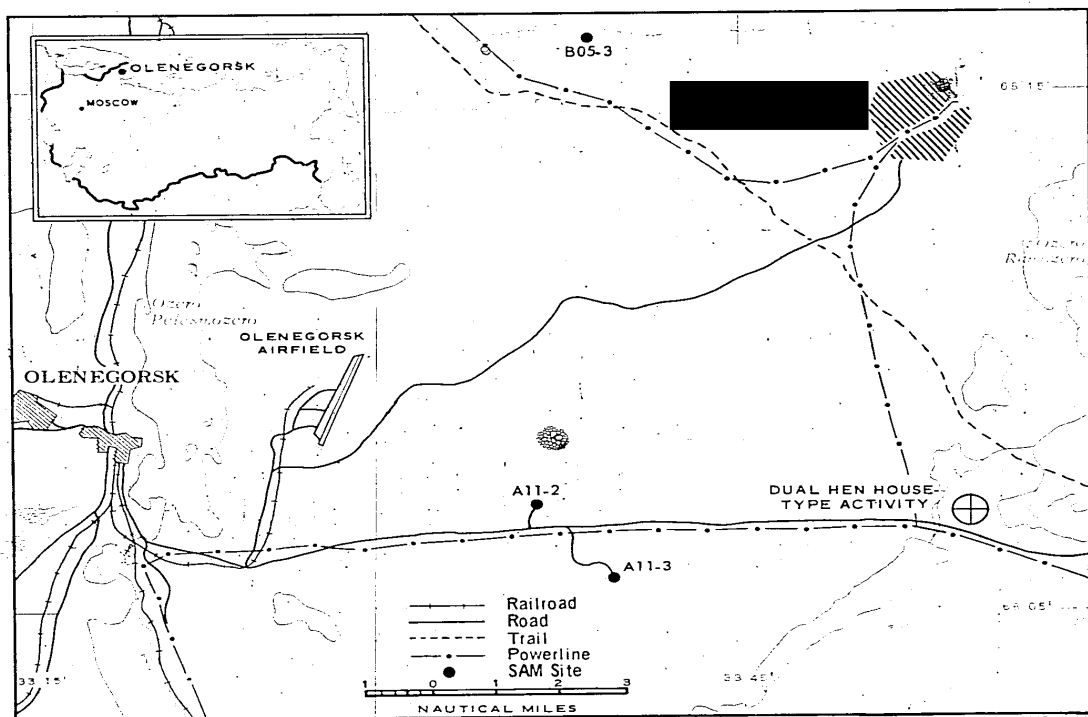


FIGURE 2. LOCATION OF DUAL HEN HOUSE-TYPE ACTIVITY NEAR OLENEGORSK.

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ACTIVITY NEAR OLENEGORSK

A dual HEN HOUSE-type activity is under construction at 68-07N 33-55E on the Kola Peninsula, 54 nautical miles (nm) southeast of Murmansk, and 10.5 nm east of Olenegorsk Airfield (Figure 2). The activity is on a low hill approximately 800 feet above sea level, is in an intensely glaciated area of small lakes and is on permafrost. The activity is road served from the town of Olenegorsk and from Olenegorsk Airfield.

The dual HENHOUSE-type activity (Figures 3 and 4) consists of a double-fenced operations area of approximately 47 acres and an unsecured support area. The operations area contains a probable central control building, under construction; two linear HEN HOUSE-type structures, in varying stages of construction; one large unidentified building, in a late stage of construction; two completed smaller unidentified buildings and a spoil pile. The support area contains 48 buildings of various sizes, principally housing and storage, and a water supply facility.

The operations area can be negated on photography of [REDACTED]. Early indications of this area were present in [REDACTED] and contained two linear patterns of ground breaking and excavating activity and the probable central control building, in an early stage of construction.

The support area can be negated on photography of [REDACTED]. The first signs of the support area were apparent on photography of [REDACTED] and then contained eight gable-roofed barracks-type buildings.

OPERATIONS AREA

Probable Central Control Building

The probable central control building is

situated between the two linear structures. As observed on photography of [REDACTED] the main section of the probable central control building was approximately 215 by 185 feet. Attached to the northeast end is a lower level wing, approximately 150 by 35 feet, and attached to the southwest end is a second lower level wing, also approximately 150 by 35 feet. In addition, a third lower level wing, approximately [REDACTED] was attached to the northeast side. Exterior construction of the probable central control building appeared to be near completion in [REDACTED] with only a small section of the roof to be surfaced.

HEN HOUSE-Type Structures

Two HEN HOUSE-type structures, one a building and the other an excavation with possible footings and some backfilling, are adjacent to the west and north corners of the probable central control building. The two structures are canted in relation to the probable central control building to form a bowed pattern.

The HEN HOUSE-type structure on the west corner of the probable central control building is approximately 920 by 95 feet and is of undetermined height on photography of [REDACTED]. Possible steel framework for the southern half of the structure is visible and covering or roofing materials have been applied to the northern half of the structure. The long axis of the structure is on an azimuth of [REDACTED] degrees and the perpendicular bisector of the long axis of the building is on an azimuth of [REDACTED] degrees. The antenna face is not discernible on the photography.

The excavation adjacent to the north corner of the probable central control building is approximately 900 by 100 feet. The long axis of the excavation is on an azimuth of [REDACTED] degrees and the perpendicular bisector of the long axis

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Table 1. Structures Within the Dual HEN HOUSE-Type Activity Near Olenegorsk. (Item numbers are keyed to Figure 4.)

Item No	Description	Approximate Dimensions in feet	Roof Type	Item No	Description	Approximate Dimensions in feet	Roof Type
Operations Area							
1	Unidentified	225 x 135	Flat	24	T-shaped messhall	160 x 45	Gable
2	Storage-type	70 x 60	Gable	25	Barracks-type	65 x 50	Gable
3	Storage-type	90 x 40	Unidentified	26	Barracks-type	150 x 60	Gable
Support Area				27	Barracks-type	190 x 45	Gable
4	Storage-type	135 x 25	Gable	28	Barracks-type	185 x 45	Gable
5	Unidentified	135 x 45	Under construction	29	Barracks-type	160 x 45	Gable
6	Unidentified	120 x 25	Under construction	30	Barracks-type	175 x 60	Gable
7	Unidentified	20 (diam)	Poss dome	31	Barracks-type wing	170 x 45	Gable
8	Unidentified	125 x 45	Poss arch	32	Barracks-type	30 x 25	Gable
9	Storage-type	90 x 50	Gable	33-34	Barracks-type	165 x 45	Gable
10	Storage-type	90 x 45	Gable	35	Barracks-type	160 x 45	Gable
11	Unidentified	80 x 40	Flat	36	Barracks-type	155 x 55	Gable
12	Barracks-type	170 x 55	Gable	37-38	Barracks-type	110 x 55	Gable
13	Unidentified	70 x 15	Gable	39-40	Barracks-type	170 x 40	Gable
14	Barracks-type	160 x 55	Gable	41	Barracks-type	165 x 45	Gable
15	Unidentified	110 x 65	Flat	42	Unidentified	120 x 50	Flat
16	Unidentified	40 x 35	Flat	43	Unidentified	125 x 60	Flat
17	Unidentified	65 x 50	Flat	44	Unidentified	85 x 45	Under construction
18	Unidentified	20 x 20	Under construction	45	Unidentified	170 x 50	Flat
19	Unidentified	95 x 40	Under construction	46	Unidentified	105 x 70	Flat
20	Unidentified	55 x 10	Gable	47	Unidentified	125 x 75	Flat
21	Unidentified	45 x 40	Flat	48	Unidentified	110 x 55	Flat
22	Barracks-type	155 x 50	Gable	49	Storage-type	110 x 35	Flat
23	Barracks-type	100 x 50	Gable	50	Apartment-type	225 x 80	Flat
				51	Unidentified	90 x 50	Flat
					Unidentified	90 x 55	Flat

is on an azimuth of [REDACTED] degrees. Possible footings are visible in the open portion of the northeastern half of the excavation, and backfill covered with a dark-toned substance is evident in the southwestern half of the excavation. This dark-toned substance or material may be permanent frost insulation or subflooring.

Three additional unidentified buildings are within the secured operations area. The largest of these buildings is approximately 225 by 135 feet. Further description of these structures is given in Table 1.

A prominent circular unidentified excavation is just outside the double fence, adjacent to the northwest side of the operations area. In addition, a spoil pile is prominent inside the double fence, at the southwest end of the south-

western HEN HOUSE-type structure.

SUPPORT AREA.

The support area is approximately 0.5 nm south and southeast of the operations area. This area is unsecured and, on [REDACTED] photography [REDACTED] contained a total of 48 structures, including 5 under construction. Dimensions and descriptions of the 48 structures in the support area are included in Table 1.

A water supply facility, in a very early stage of construction, is about half way between the support area and the operations area, in a position to serve both. A probable waterline in a backfilled trench, approximately 1,450 feet long, can be observed between the water supply facility and a lake to the east. Photography of

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[REDACTED] indicates an extension of the probable waterline approximately 700 feet into the lake. Scars from the water supply facility indicate probable waterlines leading northwestward to the operations area and southeastward to the support area. An additional scar extends from the water supply facility toward the support area to the south.

A power trace, generally east-west in

direction, is to the south of the support area. The point at which power is or may be taken from this is undetermined. An open trench, approximately 2,000 feet long, probably for a pipeline or a cable, apparently begins in the eastern section of the support area and terminates near the southern edge of the clearing for this generally east-west power trace.

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ACTIVITY NEAR ANGARSK

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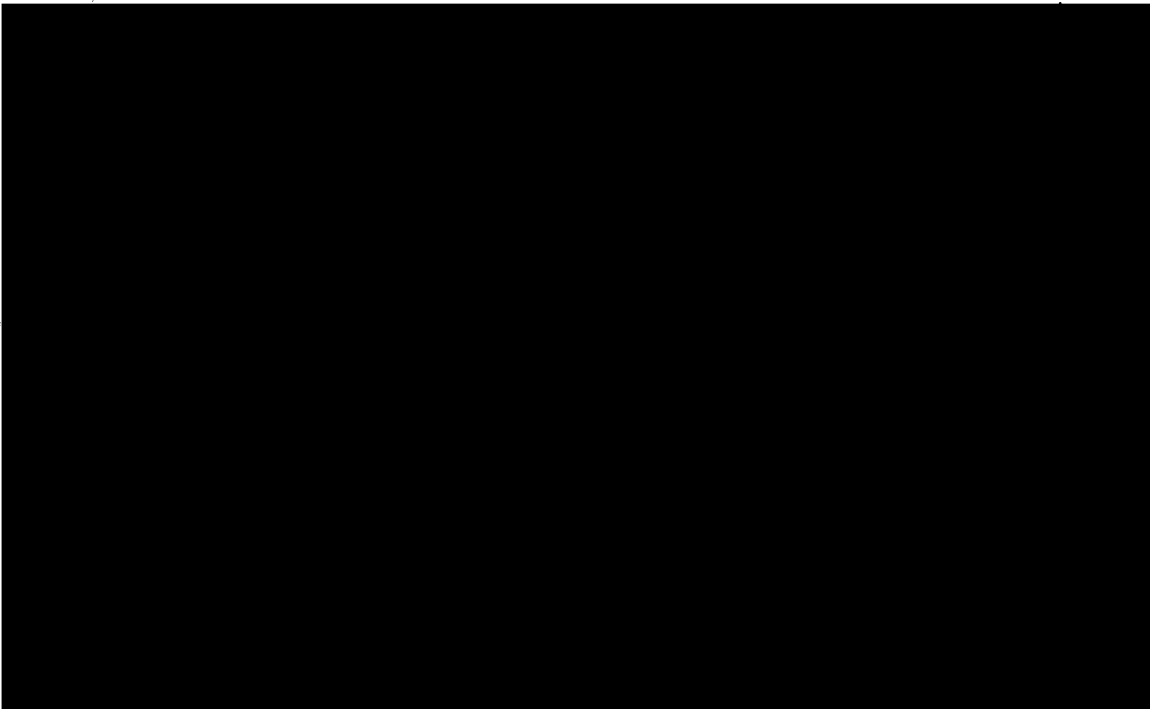
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Since the report of [REDACTED] 1/7, the dual HEN HOUSE-type activity 35 nm northwest of Angarsk at 52-53N 103-15E has been covered

[REDACTED] This activity consists of a secured operations area (Figures 5 and 6) and unsecured support areas (Figures 7 and 8).

The operations area consists of a single-

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fenced area of approximately 320 acres which contains two dual HEN HOUSE-type structures designated operations facility A and operations facility B, one possible dual HEN HOUSE-type structure designated operations facility C, all in varying stages of construction, and an operational support facility. There are three general support areas, designated areas 1, 2, and 3; a motor pool area; a possible water treatment plant; a probable power substation; and an unidentified area. These support areas contain a total of 114 structures.

OPERATIONS FACILITY A

This facility consists of a probable central control building and two HEN HOUSE-type structures.

Probable Central Control Building

The main section of the probable central control building is approximately [REDACTED] feet. Attached to the north end is a lower level wing, approximately 140 by 35 feet; attached to the south end is a second lower level wing, approximately 140 by 35 feet, and attached to the west side is a third lower level wing, approximately [REDACTED]. This building appeared to be externally complete in [REDACTED].

HEN HOUSE-Type Structures

[REDACTED] Visible on photography of [REDACTED] were an excavation with probable footings extending north from the probable central control building approximately 1,000

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feet and a second excavation extending south from the probable central control building approximately 1,005 feet. The long axis of these two excavations is on an azimuth of 170/350 degrees and the perpendicular bisector of each excavation is on an azimuth of 260/80 degrees.

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[REDACTED] a portion of the excavation north of the probable central control building had been backfilled and a steel superstructure, approximately 915 by 85 feet, had been constructed over this backfilled area. The overall distance from the probable central control building to the north end of the superstructure is approximately 995 feet. On the south end of the superstructure, roofing materials had been applied to an [REDACTED] segment of the east side of the roof. Visual analysis of this covered portion shows the ridgeline of the roof to be off center toward the west side of the framework, indicating that the east side of the roof has a lower pitch than the west side. The pitch of the two sides of the roof is undetermined.

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Identifiable on [REDACTED] photography are three parallel rows of concrete footings in the excavation south of the probable central control building. The two outside rows of footings are approximately 100 feet apart and the third row is approximately 70 feet from the western row. A small, rectangular, possible foundation, approximately [REDACTED] feet, is at the southern ends of the third and eastern rows of footings. The overall distance from the southern end of the excavation to the probable central control building is approximately 1,005 feet. [REDACTED] backfilling was in progress around the footings in the northern half of the excavation.

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OPERATIONS FACILITY B

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This facility was in an early stage of construction in [REDACTED] and consisted of the three wings, under construction, of the probable central control building; an

excavation in a clearing for the HEN HOUSE-type structure to the south of the probable central control building; and a linear clearing to the north.

Probable Central Control Building

Construction of the main section of the probable central control building had not begun in [REDACTED] however, construction of one wing, approximately 215 by 20 feet, had progressed to a point that the walls were visible. The foundations for the other two wings were under construction. Large stacks of building materials, not present in [REDACTED] were stored immediately west of the walls of the one wing, and in the northern half of the linear excavation extending south from the probable central control building.

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HEN HOUSE-Type Structures

Between [REDACTED] an excavation, approximately 1,045 by 140 feet, was nearing completion in a clearing south of the probable central control building. Along the east and west sides of the excavation are spoil piles. To the north of the probable central control building, a clearing, approximately 1,000 feet long, was observed in [REDACTED] and [REDACTED] there was no evidence of excavating activity in this clearing. The azimuth of the long axis of the dual HEN HOUSE-type structures and the azimuth of the perpendicular bisector of each is the same as those at operations facility A.

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OPERATIONS FACILITY C

This possible dual HEN HOUSE-type structure is in a very early stage of construction and consists of foundation activity for a probable central control building in the approximate center of a long linear clearing.

Probable Central Control Building

A "waffle pattern" of spaced excavations, probably for concrete footings, was observed

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Table 2. Structures Within the Dual HEN HOUSE-Type Activity Near Angarsk. (Item numbers are keyed to Figures 6 and 8.)

Item No	Structure Description	Approximate Dimensions in feet	Roof Type	Item No	Structure Description	Approximate Dimensions in feet	Roof Type
Operations Area				66	Apartment-type	255 x 60	Under construction
1	Guardhouse wing	40 x 40	Flat	67	Storage-type	65 x 30	Flat
2	Storage-type	20 x 20	Flat	68	Foundation	55 x 55	--
3	Storage-type	Undetermined	Gable	69	Foundation	110 x 45	--
4-5	Storage-type	Undetermined	Flat	70	Apartment-type	205 x 40	Flat
6	Storage-type	75 x 65	Flat	71	L-shaped administration-type wing	120 x 45	Flat
7	Storage-type	80 x 40	Flat	72	Apartment-type	240 x 40	Flat
8-10	Storage-type	35 x 25	Flat	73	Apartment-type	240 x 40	Under construction
11	Foundation	35 x 25	--	74	Foundation	240 x 40	--
Support Area 1				75-76	Unidentified	Undetermined	Gable
12-20	Barracks-type	145 x 40	Gable	77	Foundation	205 x 60	--
21	Storage-type		Gable	Motor Pool Area			
22	L-shaped		Gable	78	Storage-type	55 x 25	Flat
23	Storage-type	35 x 15	Gable	79	Storage-type		Gable
24	Storage-type	65 x 30	Flat	80	Storage-type	Undetermined	Flat
25	Storage-type		Gable	81	Storage-type	40 x 20	Flat
26	Storage-type		Flat	82	Storage-type	85 x 50	Flat
27	Storage-type		Flat	83	Storage-type	55 x 35	Gable
28	Storage-type		Gable	84	Shop-type	275 x 45	Flat
29	Storage-type		Flat	85	Storage-type	40 x 25	Flat
30	Storage-type		Gable	86	Storage-type	30 x 25	Gable
31-32	Storage-type		Flat	87	Storage-type	Undetermined	Flat
33	Storage-type		Gable	88	Storage-type	50 x 30	Gable
34	Storage-type		Flat	Support Area 3			
35	Storage-type	75 x 30	Gable	89	Storage-type	60 x 25	Flat
36	Storage-type		Flat	90	Storage-type	25 x 20	Flat
37	Storage-type	40 x 20	Flat	91	Unidentified wing	75 x 35	Gable
38	Storage-type		Flat		wing	60 x 15	Gable
39	Storage-type		Flat	92	Storage-type	55 x 30	Gable
40	Storage-type		Flat	93	Storage-type	30 x 25	Flat
Support Area 2				94	Foundation	35 x 20	--
41	Barracks-type	150 x 40	Gable	95	Storage-type	50 x 20	Flat
42	Storage-type		Flat	96	Storage-type	85 x 30	Gable
43	Barracks-type	140 x 40	Gable	97	Storage-type	110 x 35	Gable
44	Barracks-type	145 x 40	Flat	98	Storage-type	45 x 25	Gable
45	Barracks-type	145 x 40	Gable	99	Storage-type	65 x 35	Gable
46	Storage-type	25 x 20	Gable	100-100	Barracks-type	60 x 20	Gable
47	Storage-type		Flat	101	Storage-type	Undetermined	Gable
48	Storage-type		Flat	102-116	Barracks-type	70 x 30	Gable
49	Storage-type	70 x 30	Gable	119-120	Barracks-type	60 x 20	Gable
50-53	Barracks-type	145 x 40	Gable	121	Administration-type	155 x 40	Gable
54	Storage-type	Undetermined	Gable	122	Storage-type	Undetermined	Gable
55	Storage-type	65 x 25	Flat	Probable Power Substation			
56	Storage-type		Flat	123	Foundation	165 x 45	--
57	Barracks-type	145 x 40	Gable	124	Foundation	90 x 45	--
58	Foundation	90 x 60	--	Unidentified Area			
59	Apartment-type	165 x 50	Under construction	125	Foundation	100 x 40	--
60	Unidentified	90 x 65	Flat				
61	Storage-type	Undetermined	Flat				
62	Storage-type	65 x 35	Flat				
63	Steam plant		Flat				
64	Foundation	Undetermined	--				
65	Apartment-type	130 x 40	Under construction				

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██████████ in the approximate center of the long linear clearing identified in ██████████. The overall dimensions of these excavations are approximately 290 by 215 feet. These excavations appear to be the base for a structure similar to the probable central control building under construction at operations facility A.

tion, all but one constructed between ██████████ ██████████ are situated between operations facility A and the southern ends of operations facilities B and C. These structures are further described in Table 2.

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SUPPORT AREAS

In the general area from one-half nm north to one nm north-northeast of the secured operations area are support areas 1, 2, and 3; a motor pool area; a possible water treatment plant; a probable power substation, and an unidentified area. Construction work was in progress in ██████████ in all of these areas except support area 1 and the motor pool area. The structures in these areas are further described in Table 2.

Support Area 1

This area consists of 9 large gable-roofed barracks-type buildings and 20 smaller storage-type buildings, and is approximately one-half nm north of the operations area. Other than a few trails through the woods, no access roads to this area are discernible.

Support Area 2

This support area, on photography of ██████████ contained a total of 27 completed structures, and 10 buildings and foundations under construction. Building materials were scattered throughout the area, and a tower crane was adjacent to one of the apartment-type buildings which was under construction.

Support Area 3

This support area contains one foundation and a total of 33 buildings, predominately barracks-type. An unidentified number of vehicles are parked near the buildings along the road.

Motor Pool Area

On photography of ██████████ the motor pool area contained a total of 11 buildings, probably storage and vehicle repair shops. At least 20 probable tractor trailer-type vehicles were parked in the northwest corner of this

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25X1D Possible Dual HEN HOUSE-Type Structure

This structure, on ██████████ consisted of a clearing approximately 2,600 feet in length with a maximum width of approximately 250 feet. There was no apparent change in the clearing between ██████████. The long axis of the linear clearing with the spaced excavations is on an azimuth of ██████████ degrees and the azimuth of the perpendicular bisector is ██████████ degrees.

Operational Support Facility

Within the fenced operations area are the following support structures:

A 20-foot diameter standpipe, possibly for water or fuel storage, is situated approximately 150 feet west of the area of spaced excavations in the operations facility C.

A probable guardhouse (Figure 6, item 1) is beside the road, just inside the secured operations area. An open trench, probably for a water line, parallels the road. No power trace is discernible within the secured operations area.

Foundation work, consisting of heavy concrete footings and a series of shallow excavations for additional footings, is centrally located between the three probable central control buildings observed, under construction, on photography of ██████████. The overall dimensions of the foundation work are approximately 245 by 185 feet. To the west, directly across the road from this foundation work is an area of minor earth scars, approximately 175 by 120 feet. There has not been sufficient construction in this scarred area to determine its function.

Nine unidentified buildings and one founda-

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area, and approximately 60 other vehicles, unidentified as to type, were dispersed throughout the area.

Possible Water Treatment Plant

This plant consists of two basins or semi-buried open tanks, each approximately 45 feet in diameter, and one rectangular building, approximately 90 by 30 feet. Construction appeared to be continuing in [REDACTED]. There was an open trench leading south into the plant from the Bolshaya Belaya River. Two open trenches lead outward from the plant, one to a point near the probable central control building in operations facility A and one to support area 2. These trenches will probably contain water lines.

Probable Power Substation

In this area are two linear excavation patterns, approximately 200 by 55 feet and 170 by 50 feet, probably for a transformer yard, and two rectangular building foundations, approximately 165 by 45 feet and 90 by 45 feet. An in-operative power trace leads into the facility from the north.

Unidentified Area

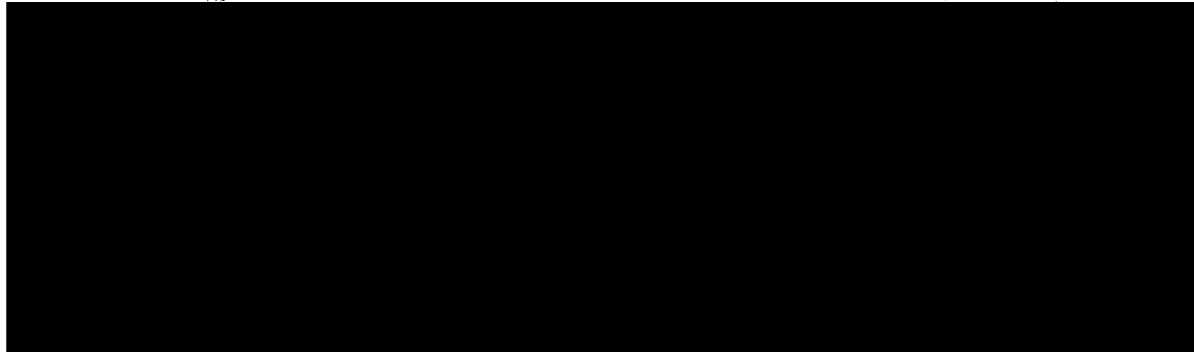
This area, situated to the north of support area 3, consists of two cylindrical objects, each approximately 25 feet in diameter, of an undetermined but low height; one rectangular foundation approximately 90 by 30 feet; and a small shallow excavation or pit.

SSATC SITE 13

Site 13 at SSATC is comprised of three dual HEN HOUSE-type structures, in various stages of construction, each equipped with a probable central control building. Two of these dual structures are parallel and in line, with a perpendicular bisector of [REDACTED]; the third is offset from the other two with a perpendicular bisector of [REDACTED]. The construction stages of the HEN HOUSE-type structures range

from an advanced stage of external construction at the structure first observed in [REDACTED] designated operations area A, to initial excavation work at the structure first observed in [REDACTED] designated operations area C. The three small support areas at Site 13 are used by both the three dual HEN HOUSE-type structures and the nearby Building Triad.

COMPARISON OF DUAL HEN HOUSE-TYPE ACTIVITIES



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Table 3. Summary of Dual HEN HOUSE-Type Activity Near Olenegorsk, Angarsk, and SSATC Site 13

Activity	HEN HOUSE-Type Structures						Support Area (s)		
	Designation	Dimensions of Structures, Excavations or Clearings in feet (approx)	Aximuths of the Perpendicular Bisectors of the Structures in degrees	Dimensions of Probable Central Control Building or Foundation in feet (approx)	Vegetation Date	Date First Observed	Vegetation Date	Date First Observed	Total Number of Structures (Date Observed)
Near Olenegorsk	Southwest	920 x 95		265 x 210					
	Northeast	900 x 100							
Near Angarsk	A North	915 x 85	260/80						
	A South	900 x 100	260/80						
	B North	1,015 x 110	260/80						
	B South	840 x 250	260/80	Undetermined					
	C Northeast	1,040 x 250							
	C Southwest	1,270 x 230		290 x 215					
SSATC Site 13	A North	880 x 80		295 x 160					
	A South	880 x 105							
	B North	945 x 70		280 x 125					
	B South	935 x 85							
	C North	820 x 105		245 x 215					
	C South	760 x 95							

25X1D

25X1D

25X1D

25X1D

25X1D

TOP SECRET CHESS RUFF

- 14 -

Handle Via
TALENT-KEYHOLE
Control System OnlyHandle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

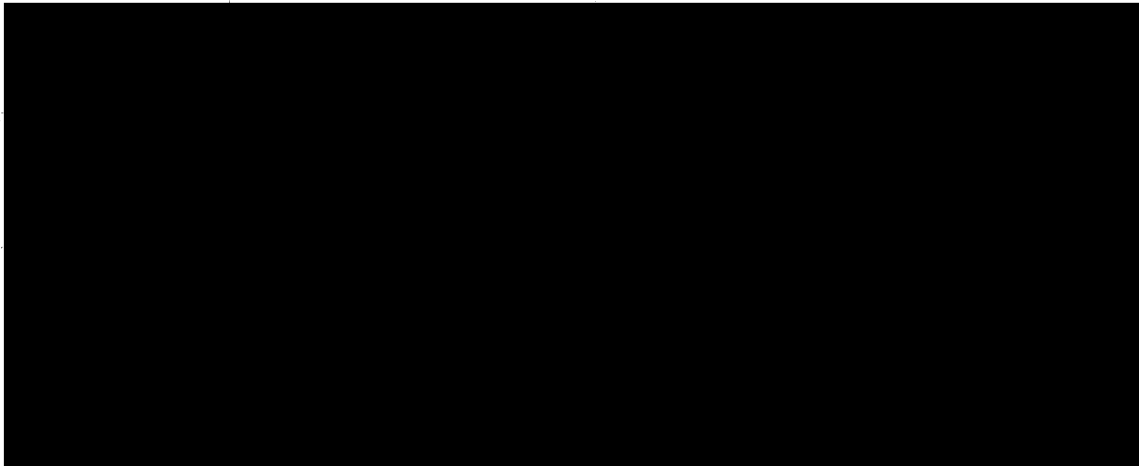
ICS-7885764
NPIC/R-855/64

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

TCS-7885/64
NPIC/R-855/64

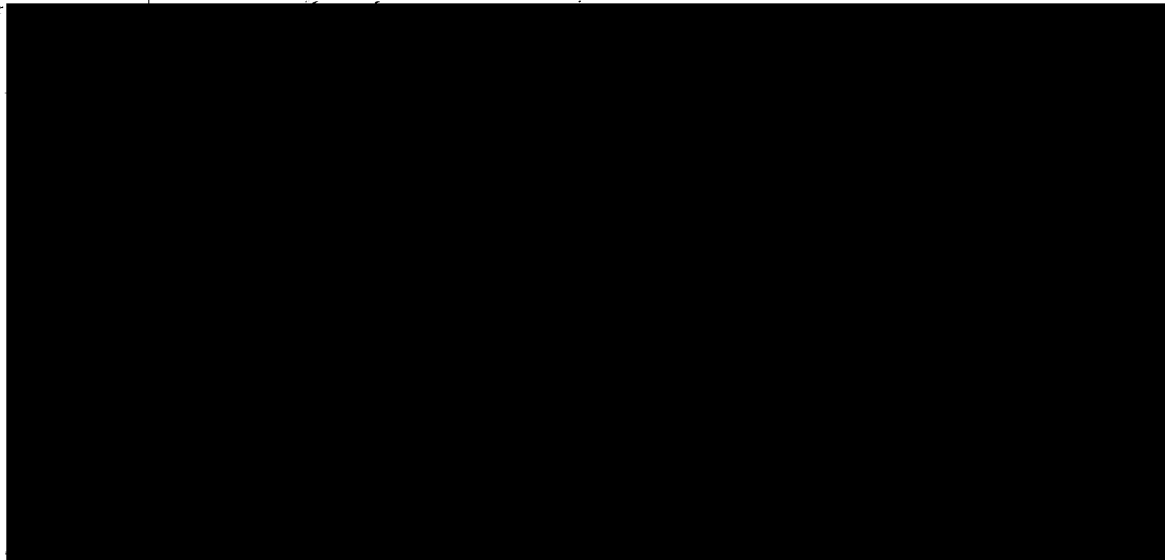
25X1B



25X1D

REFERENCES

PHOTOGRAPHY



- 15 -

TOP SECRET CHESS RUFF

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Control System Only

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TALENT-KEYHOLE
Control System Only

25X1D

TOP SECRET CHESS RUFF

TCS-7885/64
NPIC/R-855/64



MAPS OR CHARTS

- ACIC. ONC E-7, 1st classified edition, Sep 59, scale 1:1,000,000 (CONFIDENTIAL)
- ACIC. ONC C-2, 4th classified edition, Sep 60, scale 1:1,000,000 (CONFIDENTIAL)
- SAC. US Air Target Chart, Series 200, Sheet 0200-16HL, 3d ed, May 63, scale 1:200,000 (SECRET)
- SAC. US Air Target Chart, Series 200, Sheet 0051-23 HL, 3d ed, Sep 63, scale 1:200,000 (SECRET)
- ACIC. US Air Target Chart, Series 200, Sheet 0245-10AL, 2d ed, Jun 60, scale 1:200,000 (SECRET)
- Ministerstvo Geologii i Okhrany, Geologicheskaya Karta SSSR, List No 2, 29 Nov 57, scale 1:2,500,000 (UNCLASSIFIED)

25X1D

DOCUMENT

1. NPIC. R-213.64, *Suspect AMM-Associated Activity Near Angarsk, USSR, and Site 13, SSATC, Changes Since* [REDACTED] Mar 64 (TOP SECRET CHESS RUFF)

RELATED DOCUMENTS

- NPIC. R-125.64, *Comparison of Suspect AMM-Associated Activity Near Angarsk, USSR, With Site 13, SSATC*, Feb 64 (TOP SECRET CHESS RUFF) 25X1D
- NPIC. R-325.64, *Sary-Shagan Antimissile Test Center, USSR, Changes and Additions as of* [REDACTED] May 64 (TOP SECRET CHESS RUFF)
- NPIC. R-162.64, *Antimissile Test Center, Sary-Shagan, USSR, Changes and Additions as of* [REDACTED] Mar 64 (TOP SECRET CHESS RUFF)

REQUIREMENT

CIA. C-RR4-81,557

25X1D

NPIC PROJECT

N-751.64

- 16 -

TOP SECRET CHESS RUFF

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